CITY AND COUNTY OF DENVER

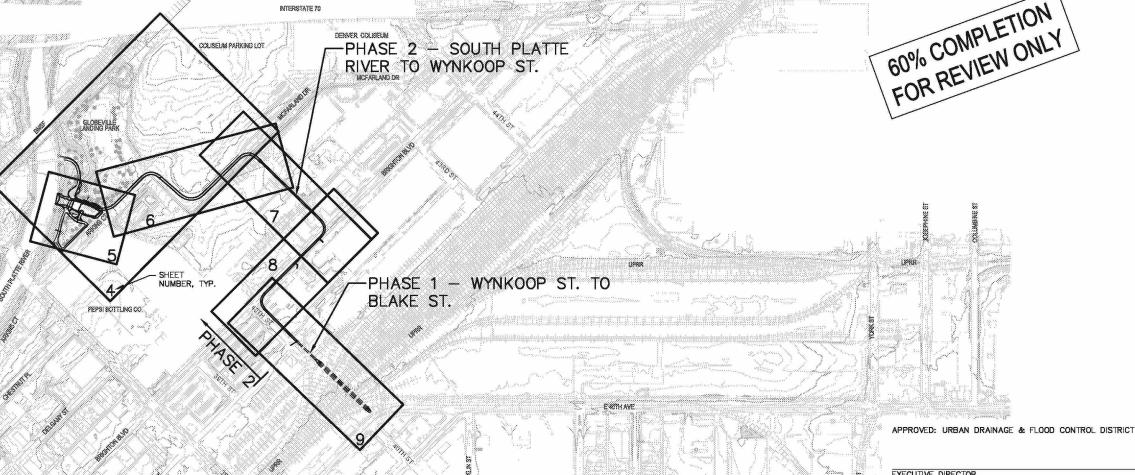
DEPARTMENT OF PUBLIC WORKS **ENGINEERING DIVISION**

URBAN DRAINAGE AND FLOOD CONTROL DISTRICT

UDFCD PROJECT NO. 09-07.14, PILAR NO. 2010-0517 HIGH STREET OUTFALL & 40TH AVENUE SYSTEM PHASE 2 - S. PLATTE RIVER TO WYNKOOP STREET **FINAL DESIGN DRAWINGS**

June 2012

60% COMPLETION FOR REVIEW ONLY



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DATE DATE MANAGER OF DESIGN, CONSTRUCTION AND MAINTENANCE PROGRAM

SENIOR PROJECT ENGINEER OF DESIGN, CONSTRUCTION AND MAINTENANCE PROGRAM

WHPacific

SUBMITTED BY:	PROJECT DESIGN ENGINEER	DATE:	APPROVED:	MALL BUSINESS OPPORTUNITY	DATE:
THROUGH:	DIRECTOR OF ENGINEERING	DATE:	APPROVED:	CITY ENGINEER	DATE:
			APPROVED:	CER OF PUBLIC WORKS	DATE:



By: Michael R. Galuzzi Licensed Professional Engineer State of Colorado

17593

Name of Firm: WHPacific, Inc



HIGH ST. OUTFALL & 40TH AVE. SYSTEM PHASE 2 - S. PLATTE RIVER TO WYNKOOP ST.

CJC

500975

June 2012

General Notes For Storm Sewer

- CONTRACTORS PERFORMING WORK ON ANY WASTEWATER FACILITY OR APPURTENANCE MUST BE PROPERLY LICENSED AND HAVE A LICENSED PLUMBER OR DRAINLAYER ON SITE DURING THE WORK.
- THE MOST RECENT EDITION OF THE WASTEWATER MANAGEMENT DIVISION STANDARD DETAILS AND TECHNICAL SPECIFICATIONS APPLY TO ALL WORK. THE CONTRACTOR MUST BE IN POSSESSION OF THE STANDARD DETAILS AND TECHNICAL SPECIFICATIONS AT THE PRE-CONSTRUCTION CONFERENCE AND A COPY MUST REMAIN ON THE GOS ITE AT ALL THISE DURING CONSTRUCTION. WAS THE REMAINED AND TECHNICAL SPECIFICATIONS CAN BE VIEWED AT THE FOLLOWING WEBSITE ADDRESS: WINNEDENVERGOV.ORG.
- --- TYPE PUBLIC WORKS INTO THE SEARCH BOX (TOP RIGHT OF PAGE),
- -- SELECT DIVISIONS AND AGENCIES,
 -- UNDER ENGINEERING DIVISION, SELECT CAPITAL PROJECTS MANAGEMENT,
 -- ON THE RIGHT SDE UNDER RELATED LINKS CLICK ON WASTEWATER CAPITAL PROJECTS,
 -- SELECT CONSTRUCTION DETAIL AND TECHNICAL SPECIFICATIONS.
- THE CONSTRUCTION ACTIVITIES STORMWATER DISCHARGE PERMITS (STATE AND LOCAL), STREET-CUT PERMIT, AND STREET COCUPANCY PERMIT (INCLUDING THE ASSOCIATED TRAFFIC CONTROL PLANS) ARE REQUIRED AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL OF THESE PERMITS. APPROVED COPIES OF ALL REQUIRED PERMITS MUST BE SUBMITTED TO THE PROJECT CONSTRUCTION ENGINEER PRIOR TO THE START OF
- A PARKS AND RECREATION PERMIT WILL BE REQUIRED FOR ANY WORK OR OCCUPANCY OF PARK LAND, THIS INCLUDES BUT IS NOT LIMITED TO: DESIGNATED CITY PARKS, PARKWAYS, OPEN SPACE, TRAILS AND BIKE PATHS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL MAINTENANCE OP PARKS FACILITIES AFFECTED BY CONSTRUCTION ACTIVITIES. THIS INCLUDES BUT IS NOT LIMITED TO THE MAINTENANCE AND IRRIGATION OF LANDSCAPING ITEMS OUTSIDE OF THE WORK AREA WHICH ARE DISCONNECTED FROM SERVICE DUE TO CONSTRUCTION OPERATIONS. ALL COST FOR THIS WORK SHALL BE INCLUDED WITHIN ASSOCIATED BID ITEMS AND NO ADDITIONAL PAYMENT WILL BE MADE.
- ALL DESIGN DRAWINGS PROVIDED AS PART OF THIS CONTRACT ARE FORMATTED FOR PRINTING FULL SIZE, ON STANDARD 22 X 34 INCH (ANSI D) PAPER SIZE AND TO HALF-SIZE (AND SCALE WHERE APPROPRIATE) ON STANDARD 11 X 17 PAPER SIZE. IT IS THE USER'S RESPONSBILITY TO ENSURE THAT HARD COPIES OF PLANS UTILIZED FOR BIDDING OR CONSTRUCTION ARE PRINTED ON THE PROPER MEDIA SIZE AND THAT SCALES PROVIDED WITHIN THE DRAWINGS ARE CORRECTLY INTERPRETED.
- "RED-LINED" DRAWNES AND PRINTS ARE TO BE MAINTAINED BY THE CONTRACTOR AND SUBMITTED TO THE PROJECT CONSTRUCTION ENGINEER AT THE COMPLETION OF THE PROJECT. ANY AND ALL FIELD CHANGES MADE DURING CONSTRUCTION MUST BE NOTED. THE DRAWNES WILL STATE "RED LINES" IN LARGE BLOCK LETTERS. THE RED-LINED DRAWNES MUST BE RECEIVED AND ACCEPTED BY THE PROJECT CONSTRUCTION ENGINEER PRIOR TO FINAL ACCEPTANCE AND SETTLEMENT.
- THE CONTRACTOR SHALL NOTIFY THE PROJECT CONSTRUCTION ENGINEER IMMEDIATELY OF "ANY" DISCREPANCIES OR VARIATIONS IN BRAWNISS & SPECIFICATIONS THAT EFFECT PRICING OR THAT COULD REQUIRE MODIFICATION TO THE DESIGN.
- THE CITY AND COUNTY OF DENVER ASSUMES NO RESPONSIBILITY FOR UTILITY LOCATIONS. THE UTILITIES SHOWN ON THESE DRAWNGS HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS, HOWEVER, THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
- ALL RANGE POINTS OR OTHER SURVEY MONUMENTS WHICH MAY BE DESTROYED DURING CONSTRUCTION SHALL BE TIED OUT AND RESET BY THE CONTRACTOR'S SURVEYOR PER CITY SURVEYING STANDARDS. THE CONTRACTOR'S RESPONSIBLE FOR PROPER NOTIFICATION AND PROTECTION OF ALL MONUMENTS ENCOUNTERED DURING CONSTRUCTION.
- 10. ALL ELEVATIONS SHOWN ARE NAVOSS DATUM, UNLESS OTHERWISE NOTED.
- 11. INLETS AND MANHOLES ARE NOT SHOWN TO SCALE ON THE PLAN AND PROFILE SHEETS.
- 12. INVERT ELEVATIONS AND CALCULATED PIPE SLOPES ON STORM AND SANITARY PROFILES ARE TO THE CENTER OF MANHOLE OR STRUCTURE, PIPE LENGTHS ARE TWO DIMENSIONAL LENGTHS AND ARE CENTER TO CENTER BETWEEN MANHOLES AND TO THE INSIDE EDGE OF INLETS.
- 13. NORTHING AND EASTING CALLOUTS ON TYPE 16 AND TYPE 14 INLETS ARE TO THE CENTER OF THE STRUCTURE AT THE FLOWLINE. NORTHING AND EASTING CALLOUTS ON MANHOLES ARE TO THE CENTER OF THE MANHOLE.
- 4. LOCATION OF INLETS AND/OR INLET CONNECTORS MAY BE ADJUSTED IN THE FIELD AT THE DIRECTION OF THE PROJECT CONSTRUCTION ENGINEER IN CONJUNCTION WITH DESIGN INTENTION, ALL INLET CONNECTIONS SHOWN IN PLAN AND PROFILE ARE APPROXIMATE LOCATIONS AND DEPTHS.
- 15. DEPTHS OR BOTTOM OF STRUCTURE ELEVATIONS ARE PROVIDED FOR INLETS WITHIN THE PROJECT SCOPE. HOWEVER, THESE ELEVATIONS MAY VARY BASED ON FIELD CONDITIONS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ESTABLISH INLET DEFINS AND COMPLETE CONSTRUCTION IN CONFORMANCE WITH APPLICABLE STANDARD DETAIL DRAWINGS BASED ON CLEARANCES OF ADJACENT UTILITIES WHILE MAINTAINING MINIMUM REQUIRED GRADES ON LATERAL CONNECTIONS.
- 16. ALL SEWER MANHOLES MUST BE MAINTAINED AND ACCESSIBLE DURING CONSTRUCTION
- 17. THE CONTRACTOR SHALL LOCATE AND VERIFY ALL LIVE SANITARY SEWER SERVICES (TAPS) AND ENSURE THAT ALL ACTIVE TAPS AFFECTED BY THE CONSTRUCTION OPERATIONS ARE PROPERLY RECONNECTED. IN THE EVENT OF A SANITARY SEWER BACKUP, WITHIN THE CONSTRUCTION LIMITS, THE CONTRACTOR ASSENSE ALL RESPONSIBILITY FOR ENSURING BUSINESSES AND RESIDENCES AFFECTED ARE IMMEDIATELY ADDRESSED AND
- SANITARY MANHOLES ARE 4' DIAMETER WITH "A" BASE AND CONCENTRIC CONE UNLESS NOTED
- 19. CHANGES IN THE ELEVATION OF AN EXISTING BRICK MANHOLE RING AND COVER MAY REQUIRE THE USE OF A PRE-CAST CONCRETE MANHOLE FLAT-TOP SECTION OR MANHOLE RECONSTRUCTION AT THE DISCRETION OF THE PROJECT INSPECTOR OR THE PROJECT CONSTRUCTION ENGINEER.
- 20. ALL MANHOLES BUILT WITHIN THIS PROJECT SHALL INCLUDE EITHER A 4" OR 8" CAST IRON RISER WITH 3"
- 21. REINFORCING STEEL:
 A ALL REBAR SHALL BE PLACED PER SHOP DRAWINGS APPROVED BY THE PROJECT CONSTRUCTION
- B. REINFORCING STEEL SHALL BE HOT ROLLED DEFORMED BARS, ASTM DESIGNATION A615, GRADE 60, UNLESS OTHERWISE SHOWN OR NOTED.
- C.LAPS SHALL BE CLASS B (SPLICE NO MORE THAN HALF OF BARS AT ANY LOCATION), EXCEPT WHERE OTHERWISE SHOWN OR NOTED. LAPS IN HORIZONTAL STEEL SHALL BE STAGGERED UNLESS OTHERWISE
- D. ALL CROSSING REINFORCING BARS SHALL BE TIED.
- E, FOR ALL CAST—IN-PLACE REINFORCED CONCRETE STRUCTURES THE CONTRACTOR SHALL SUPPLY ADEQUATE BAR CHAIRS AND SUPPORTS FOR REINFORCING SUBJECT TO THE APPROVAL OF THE PROJECT
- 22. EXACT LOCATION OF ALL SAW CUTS SHALL BE DETERMINED IN THE FIELD BY THE CONSTRUCTION PROJECT
- 23. DOWELS, PIPES, WATER STOPS AND OTHER INSTALLED MATERIALS AND ACCESSORIES SHALL BE HELD SECURELY IN POSITION WHILE CONCRETE IS BEING PLACED.
- 24. \$67 BEDDING OR SPECIAL BEDDING IS REQUIRED FOR ALL STORM AND SANITARY SEWER PIPE, IN ACCORDANCE WITH THE STANDARD DETAILS AND TECHNICAL SPECIFICATIONS. OTHER FACILITIES MAY REQUIRE DIFFERENT BEDDING TYPES, PER SPECIFIC OWNER REQUIREMENTS.
- 25. THE CONTRACTOR SHALL BACKFILL AND FINE GRADE ALL CUT OR FILL SLOPES TO MATCH EXISTING CONDITIONS TO THE SATISFACTION OF THE PROJECT CONSTRUCTION ENGINEER. WHERE EXISTING LAWNS ARE DAMAGED BY THE CONTRACTOR'S OPERATIONS THE CONTRACTOR SHALL RE-SEED AND/OR SOO THE AFFECTED AREA TO A CONDITION EQUAL TO, OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION. ALL COSTS ARE INCLUDED WITHIN APPURTENANT BID ITEMS.

26. DENVER WATER

- A.IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO TAKE WHATEVER STEPS NECESSARY TO PROTECT ALL WATER FACILITIES. IF ANY WATER FACILITIES CANNOT BE ADEQUATELY PROTECTED, THEN SAID WATER FACILITIES SHALL BE RELOCATED OR REMOVED IN ACCORDANCE WITH THE DENVER WATER DEPARTMENT REQUIREMENTS, BY A DENVER WATER PREQUALIFIED CONTRACTOR.
- B. CONSTRUCTION ACTIVITIES BY ANY PARTY THAT DISTURB, RELOCATE, SEVER, OR IN ANY OTHER WAY IMPACT A SERVICE LINE SHALL BE REQUIRED TO MEET CURRENT DEAVER WATER REQUIREMENTS FOR SERVICE LINES AS SPECIFIED IN CHAPTER 3 OF THE LATEST DEAVER WATER STANDARDS.

IF EXISTING TREES ARE TO BE REMOVED THEY MUST FIRST BE EVALUATED BY THE CITY AND COUNTY OF DEDWER FORESTRY (PARKS) DEPARTMENT AND A PERMIT MUST BE OBTAINED. EXISTING TREES TO REMAIN MUST HAVE FORESTRY APPROVED TREE PROTECTION SET UP AROUND THEM DURING THE CONSTRUCTION AS SHOWN IN THE "INDIVIDUAL TREE PROTECTION DETAIL" WHICH CAN BE FOUND. BY GOING TO WWW.DENVERGOV.ORG. TYPE "ANDSCAPE PLANNING" INTO THE SEARCH BOX (TOP RIGHT OF PAGE). THE CONTRACTOR MUST FOLLOW ALL OF THE CITY AND COUNTY OF DENVER TREE RETENTION AND PROTECTION

28. METRO WASTEWATER RECLAMATION DISTRICT

METRO WASTEWATER RECLAMATION DISTRICT MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ON METRO FACILITIES IN ORDER FOR A DISTRICT INSPECTOR TO BE PRESENT DURING CONSTRUCTION.

CONTRACTOR MUST CONTACT METRO WASTEWATER RECLAMATION DISTRICT TO SCHEDULE THE INSPECTION

General Site Notes

- CONTRACTOR TO VERIFY EASEMENTS AND ROW WITH THE CITY AND COUNTY OF DENVER PRIOR TO COMMENCING CONSTRUCTION.
- 2. UNLESS LEAKS OR ANY OTHER TYPE OF DAMAGE RELATIVE TO DENVER WATER'S FACILITIES ARE CALLED TO DENVER WATER'S ATTENTION PRIOR TO EXCAVATION, IT IS PRESUMED THAT SAID LEAKS OR DAMAGE WAS CAUSED BY CONTRACTOR'S CONSTRUCTION ACTIVITIES. THEREFORE, PRIOR TO AND DURING EXCAVATION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE FOR EMDENCE OF LEAKS OR DAMAGE TO DENVER WATER FACILITIES AND TO IMMEDIATELY CALL TO DENVER WATER'S ATTENTION ANY EVIDENCE OF SAID PRE-EXISTING LEAKS OR DAMAGE.
- 3. ALL PROJECT CONSTRUCTION SHALL BE MAINTAINED ON CITY PROPERTY, WITHIN THE CITY'S STREET RIGHT-OF-WAY, OR WITHIN THE PERMANENT DRAINAGE EASEMENTS AND TEMPORARY CONSTRUCTION EASEMENTS SHOWN ON THE DRAWINGS.
- 4. SEEDING, SODDING, AND PLANTING SHALL BE SPECIFIED, OR OTHERWISE APPROVED BY CITY. CONSTRUCTION MAINTENANCE AND WATERING REQUIREMENTS SHALL CONFORM WITH THE CITY STANDARD SPECIFICATIONS, UNLESS OTHERWISE NOTED. WHERE LANDSCAPE RESTORATION MUST BE DELAYED DUE TO SEASONAL. REQUIREMENTS, SUCH WORK MAY BE AUTHORIZED BY A SEPARATE PERMIT.
- 5. RTD FASTRACKS MAY BE CONSTRUCTING IMPROVEMENTS ASSOCIATED WITH THEIR EAST CORRIDOR PROJECT ALONG BRIGHTON BOULEVARD, 40TH STREET, WYNKOOP STREET, BLAKE STREET AND 40TH AVENUE SIMULTANEOUSLY WITH THIS PROJECT. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH

Test Hole Log

PETROLEUM OR CHEMICAL ODOR

CINDER DEBRIS

TH-2 8 TEST HOLE LOCATION ON PLAN

FILL, SAND, CLEAN TO CLAYEY OR CLAY, SANDY, DEBRIS, ODOROUS, LOOSE TO VERY DENSE OR SOFT TO VERY STIFF, SLIGHTLY MOIST TO WET, BROWN, BLACK

INTERLAYERED CLAY/SAND, SILTY, STIFF OR LOOSE TO MEDIUM DENSE, SLIGHTLY MOIST TO MOIST, BROWN, TAN (CL, SC)

SAND, CLAYEY, LOOSE TO MEDIUM DENSE, SLIGHTLY MOIST TO MOIST, BROWN, TAN (SC)

SAND, SILTY, MEDIUM DENSE TO VERY DENSE, SLIGHTLY MOIST TO WET, BROWN, TAN, GRAY (SM)

BEDROCK, CLAYSTONE, SANDY, MEDIUM HARD TO VERY HARD, MOIST, GRAY

CLAY, SANDY TO VERY SANDY, STIFF, MOIST TO VERY MOIST, BROWN (CL)

SAND, CLEAN TO SLIGHTLY SILTY, SLIGHTLY GRAVELLY, LOOSE TO VERY DENSE, SLIGHTLY MOIST TO WET, BROWN, TAN, GRAY (SP. SP.-SM, SW, SW-SM)

ASPHALT

WATER LEVEL MEASURED 33.

WATER LEVEL MEASURED 33.
AFTER DRILLING ON
MAY 2, 2011

WATER LEVEL MEASURED 33 AFTER DRILLING ON JUNE 27, 2010

WATER LEVEL MEASURED 33.
AT TIME OF DRILLING

INDICATES DEPTH WHERE HOLE CAVED DURING DRILLING

AFTER DRILLING ON MAY 20, 2011

Proposed Manhole

Proposed Features

Existing Features

Existing Tree

Street/Traffic Light

Existing Manhole (Special)

Existing Manhole

Existing Inlet

od Existing Valve

Sign

Post A3. Fire Hydrant

Proposed Access Rise (Type 13/16) Valley Inlet (Type 14 or Type 16) inlet Proposed Storm Sewer Line

Survey Symbols

A Control Point/Found Monument Benchmerk M Chiseled "X" ♦ Land Come A Pin & Cop □ Property Corner Range Point Section Line

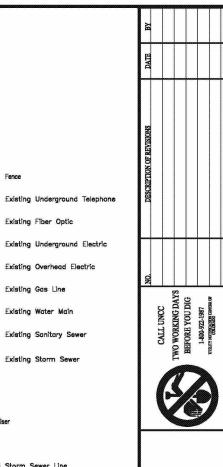
_____ Egsement Line

----- Construction Limits

Abbreviations

I - INLET

INV. - INVERT C - CENTER LINE CCD - CITY AND COUNTY OF DENVER C. & G. - CURB & GUTTER MH - MANHOLE CFS - CUBIC FEET PER SECOND N.T.S. - NOT TO SCALE C.G.& SW. - CURB.GUTTER & SIDEWALK P - PROPERTY LINE PYC - POLY VINYL CHLORIDE C.H. - CURB HEAD CLSM - CONTROLLED LOW STRENGTH MATERIAL Q.- 5 YEAR DESIGN FLOW C.P.M. - CAPTIAL PROJECTS MANAGEMENT Q - FULL FLOW CAPACITY AT INDICATED SLOPE D.W.B. - DENVER WATER BOARD RCP - REINFORCED CONCRETE PIPE E.F. - EACH FACE R.L. - RANGE LINE E.G.L. - ENERGY GRADE LINE T.O.C. - TOP OF CONCRETE E.O.A. -- EDGE OF ASPHALT T.O.P. - TOP OF PIPE E.S. - EACH SIDE T.O.S. - TOP OF SLAB E.W. - EACH WAY T.O.W. - TOP OF WALL F.G. - FINAL GRADE TYP. - TYPICAL F - FLOW LINE U.N.O. - UNLESS NOTED OTHERWISE H.G.L. - HYDRAULIC GRADE LINE W.M.D. - WASTEWATER MANAGEMENT DIVISION



Existing Fiber Optic

Existing Water Main

Existing Sanitary Sewer

Existing Storm Sewer

Property Line/R.O.W. Line

Existing Overhead Electric

Existing Underground Electric

CITY AND COUNTY OF DENVER DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION CAPITAL PROJECT MANAGEMENT 2000 W. 3RD AVE. DENVER, CO 80223 TEL.: (303) 446-3610 FAX: (303) 446-3647

OUTFALL & 40TH AVE. SYSTEM PLATTE RIVER TO WYNKOOP ST

HIGH ST PHASE 2 -ELS ESIGNED BY CJC APPROVED BY MRG ROJEC 500975

June 2012

SHEET NO.



UTILITY INFORMATION THREE (3) BUSINESS DAYS BEFORE YOU DIG (OR 1-800-922-1987)

811

UTILITY NOTIFICATION CENTER OF COLORADO (UNCC)

